



FIG. 1A

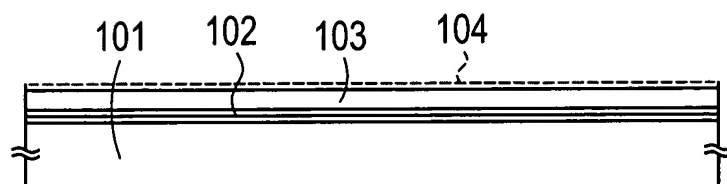


FIG. 1B

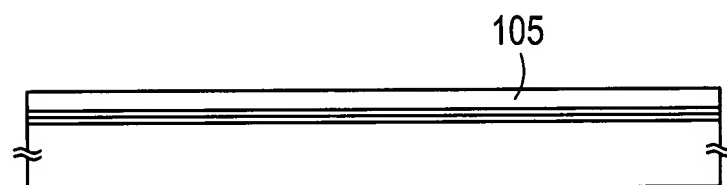


FIG. 1C

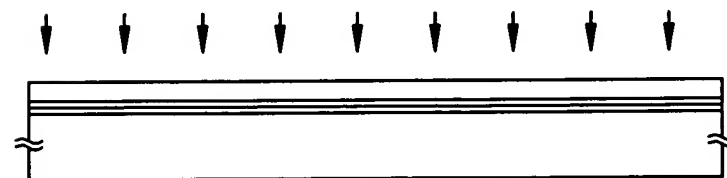


FIG. 1D

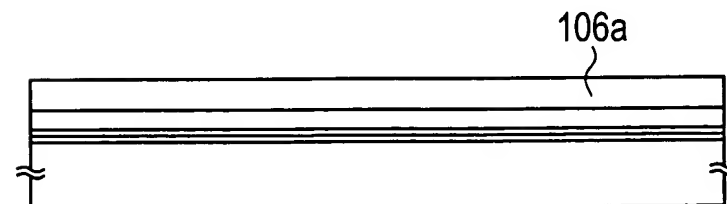


FIG. 2A

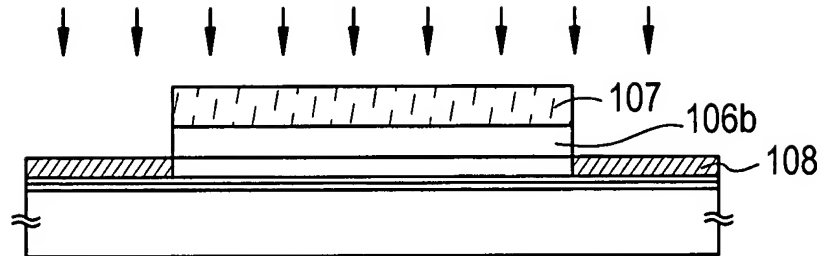


FIG. 2B

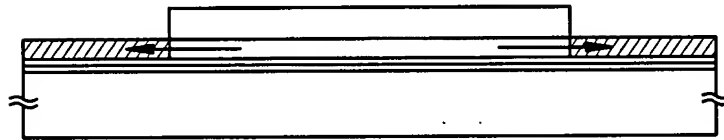


FIG. 2C

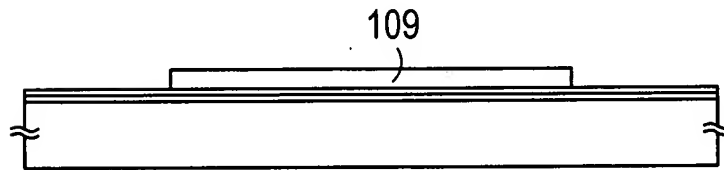


FIG. 2D

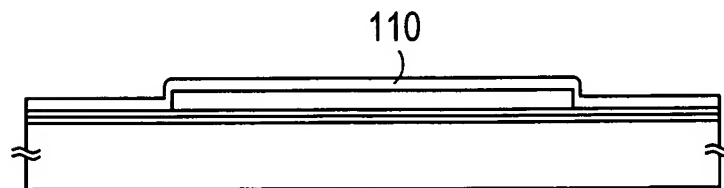


FIG. 3A

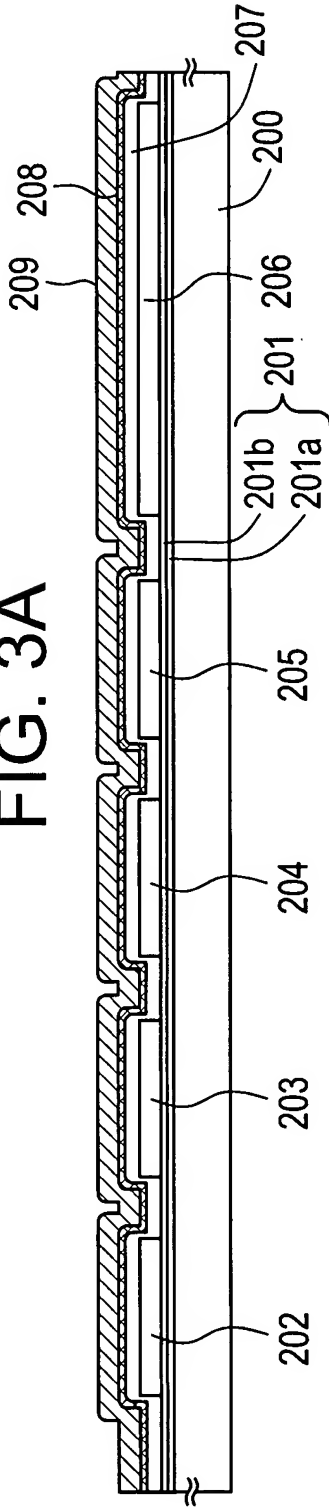


FIG. 3B

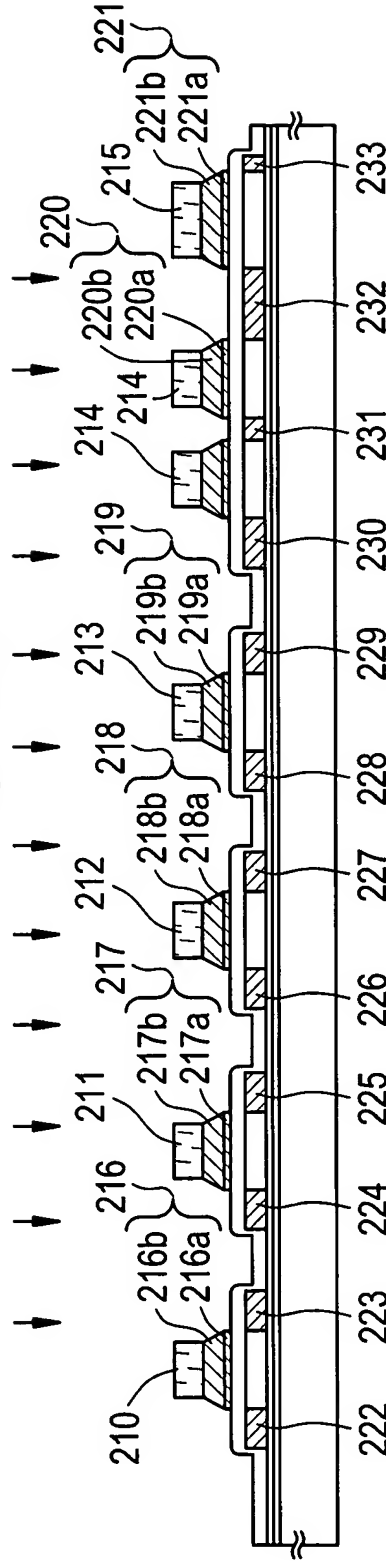


FIG. 3C

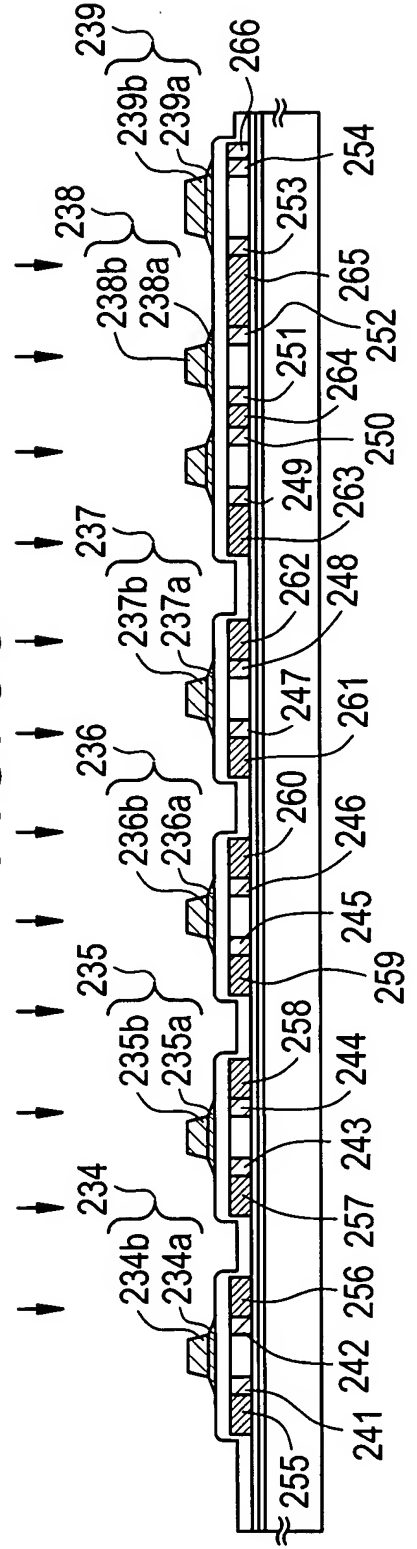


FIG. 4A

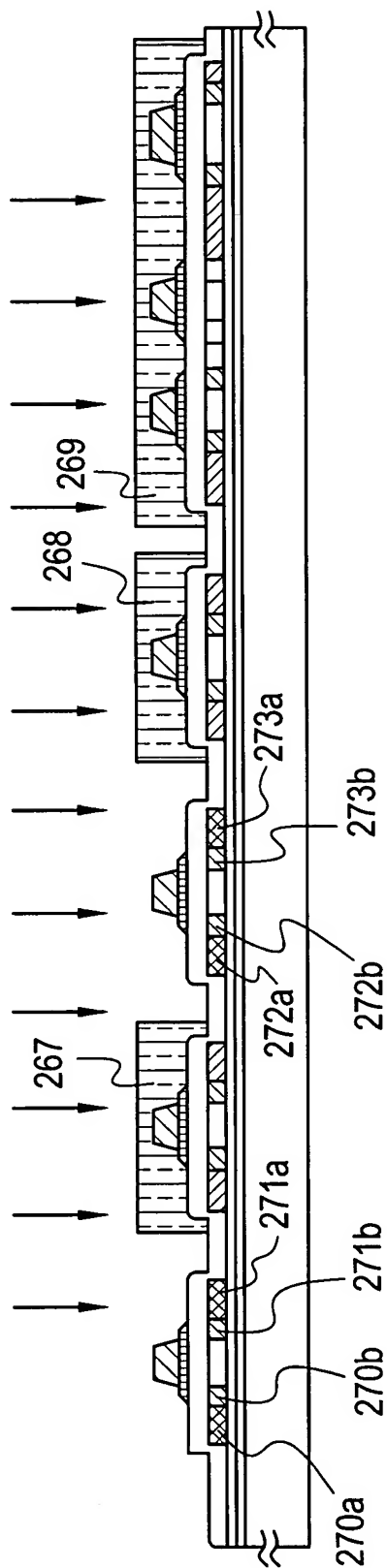


FIG. 4B

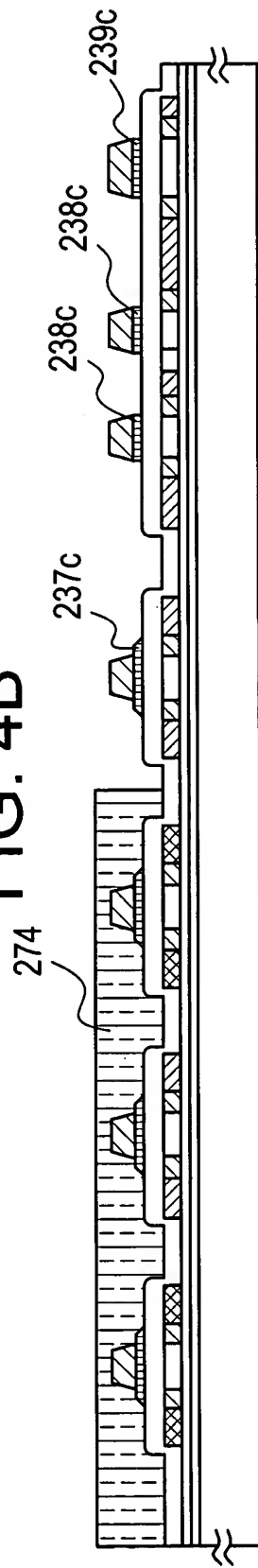


FIG. 4C

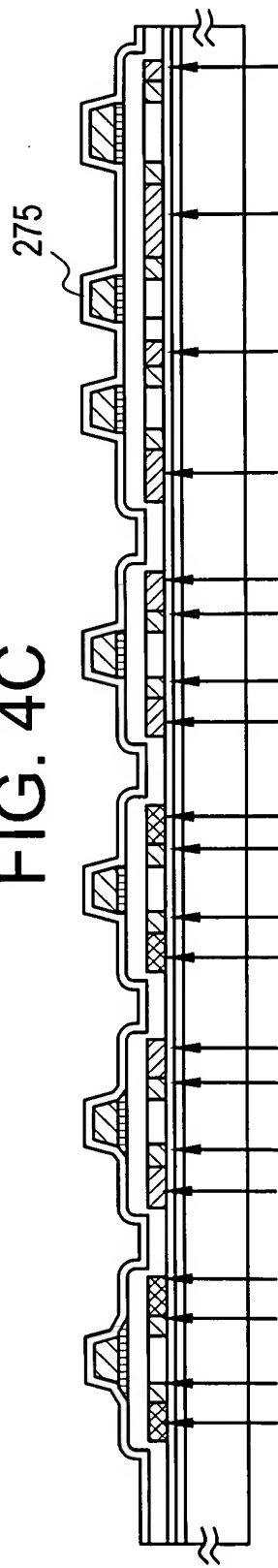


FIG. 5

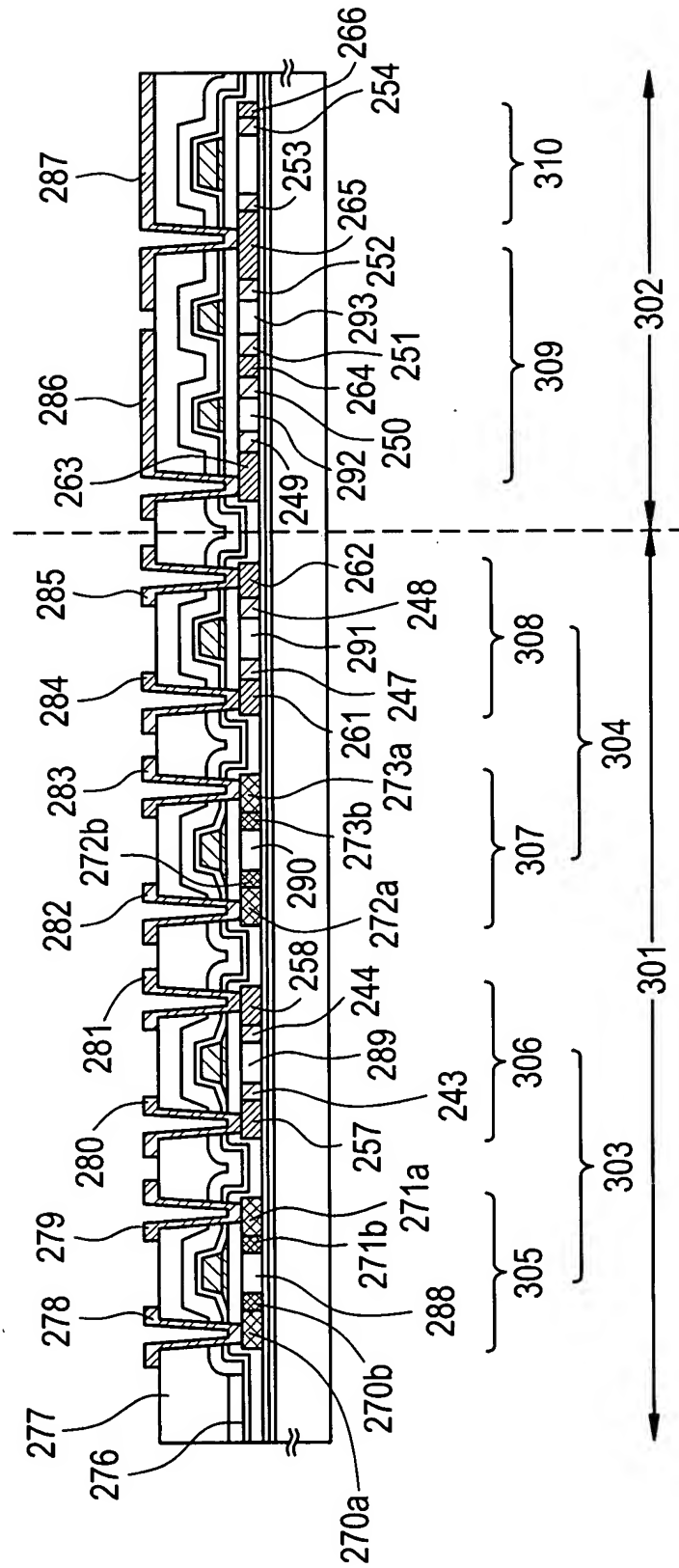


FIG. 6

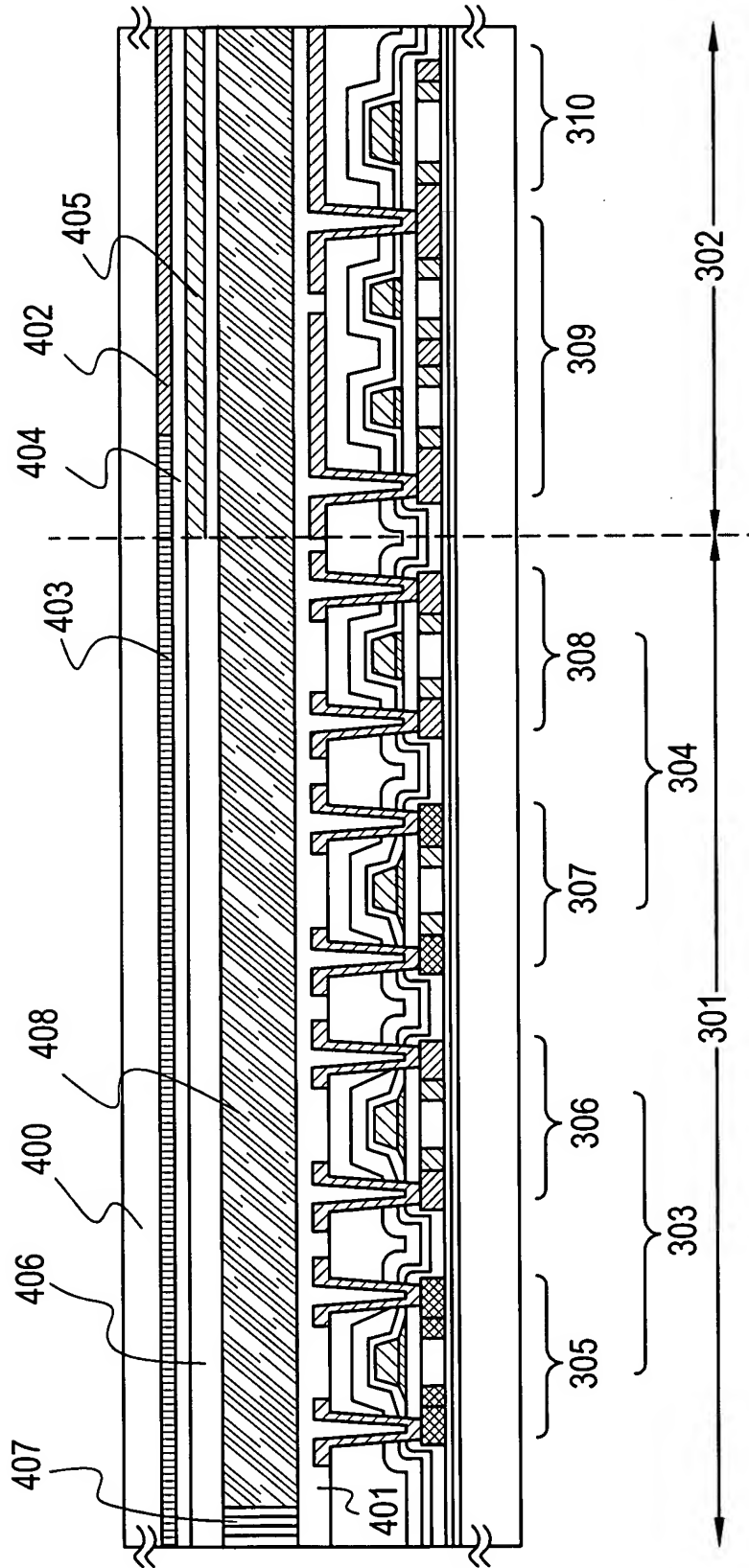
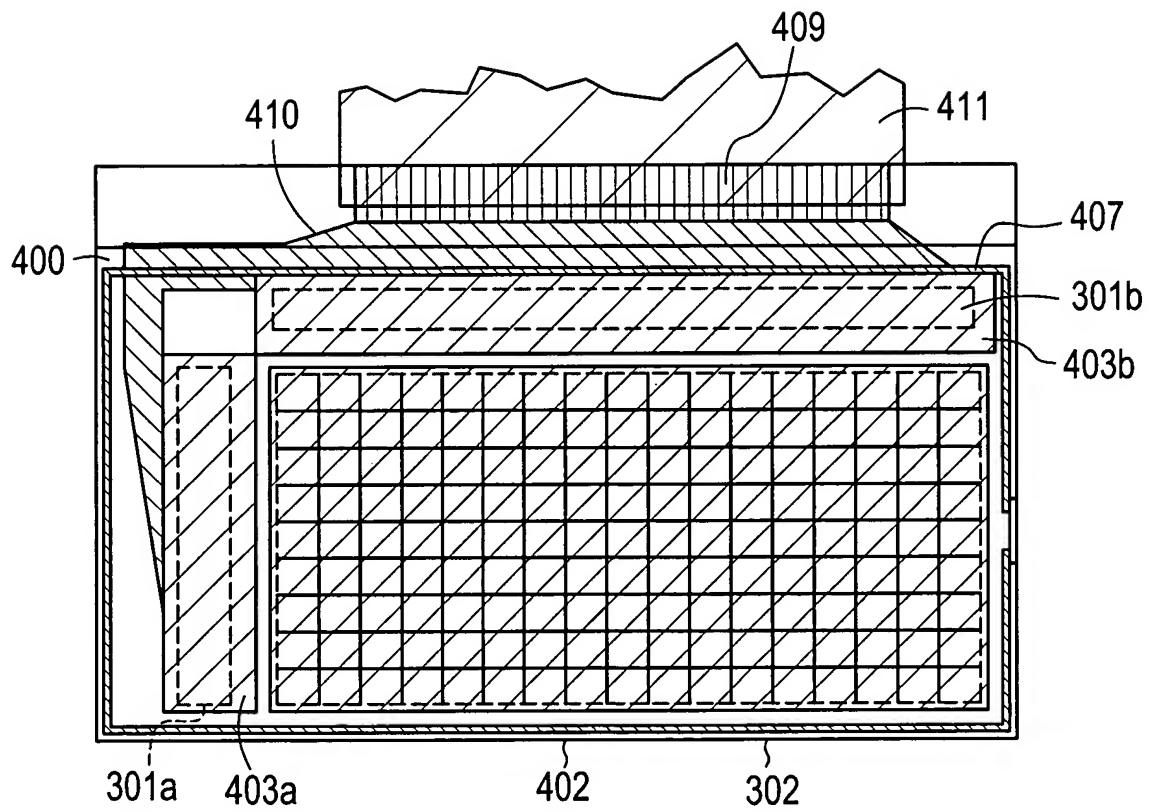




FIG. 7





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FIG. 8

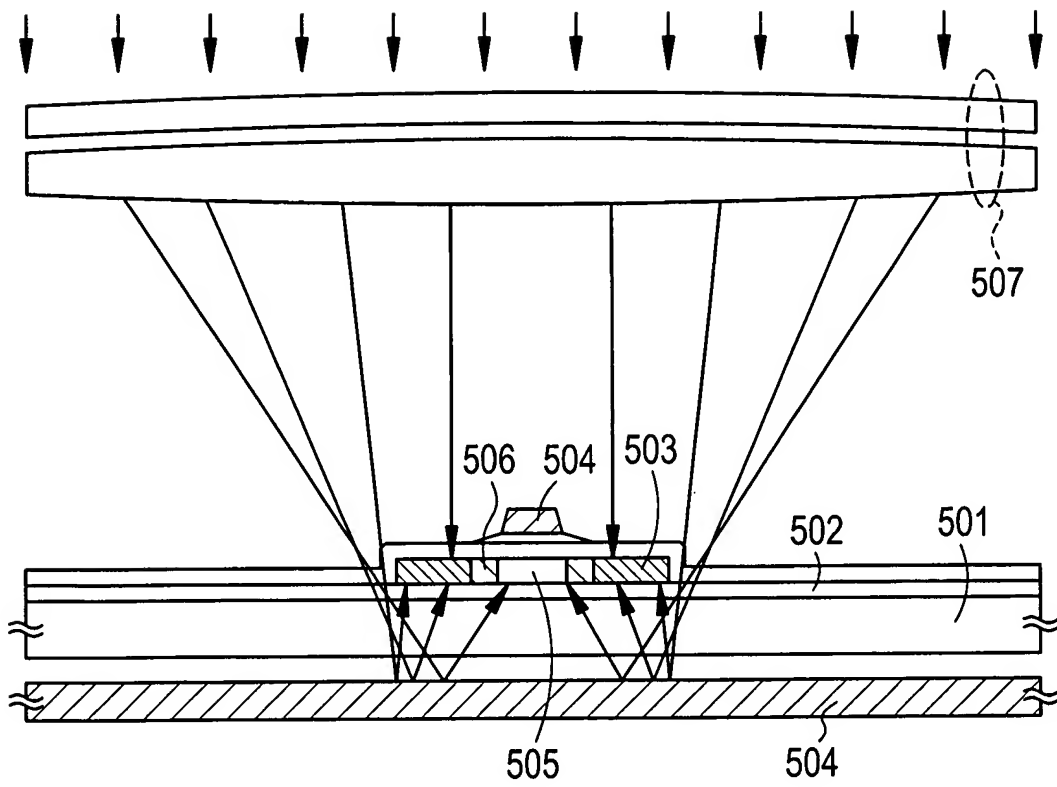


FIG. 9A

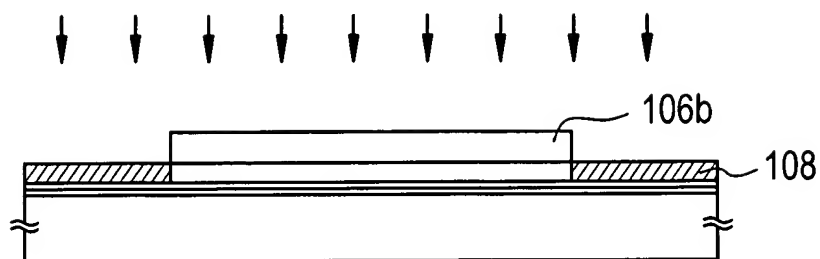


FIG. 9B

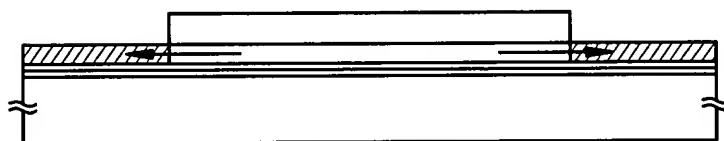


FIG. 9C

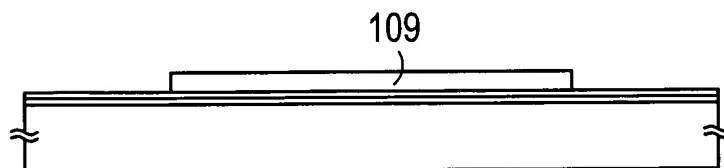


FIG. 9D

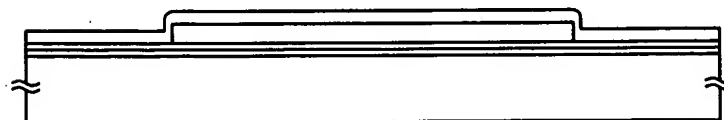




FIG. 10A

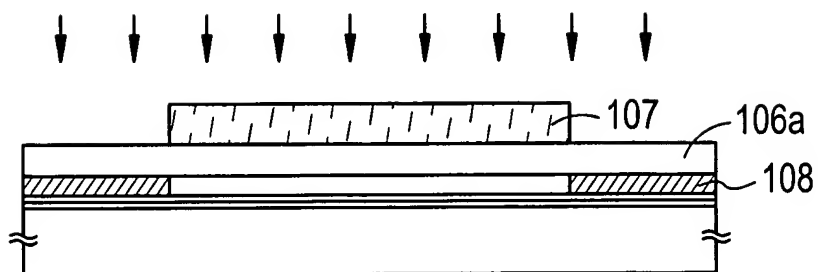


FIG. 10B

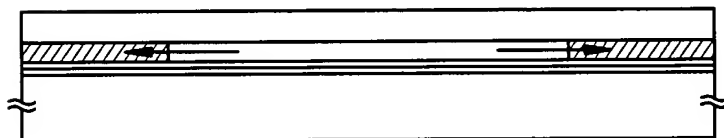
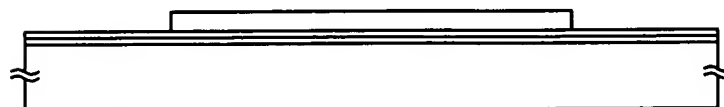


FIG. 10C



FIG. 10D





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FIG. 11A

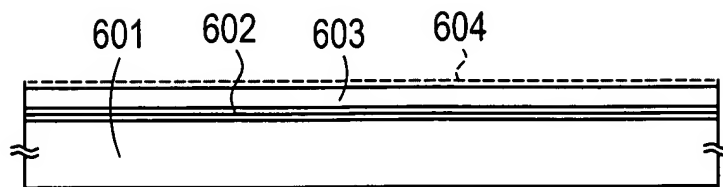


FIG. 11B

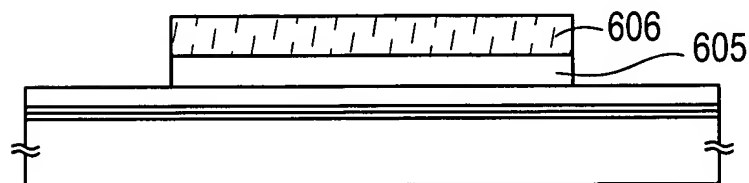


FIG. 11C

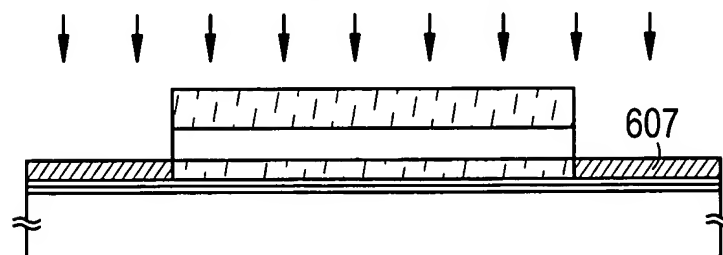


FIG. 11D

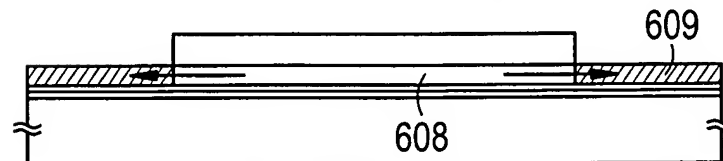
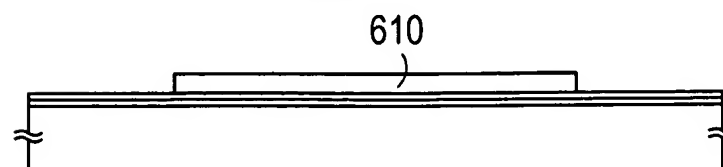


FIG. 11E





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FIG. 12A

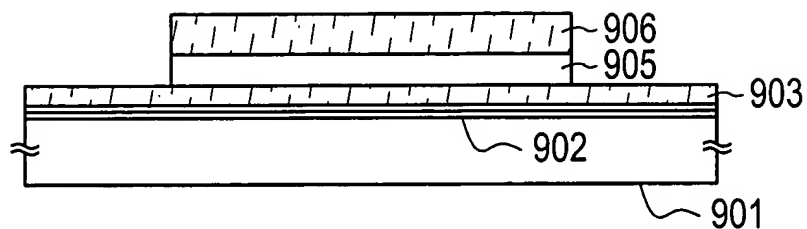


FIG. 12B

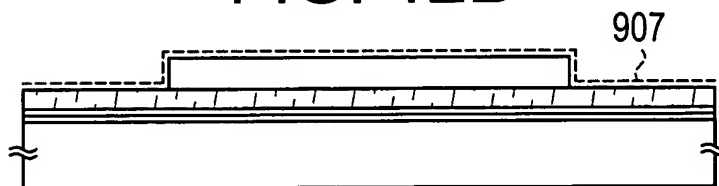


FIG. 12C

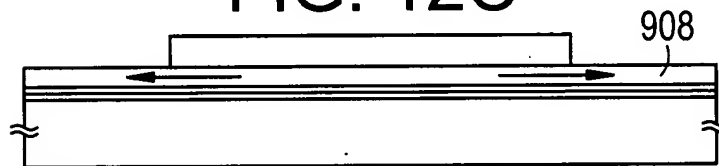


FIG. 12D

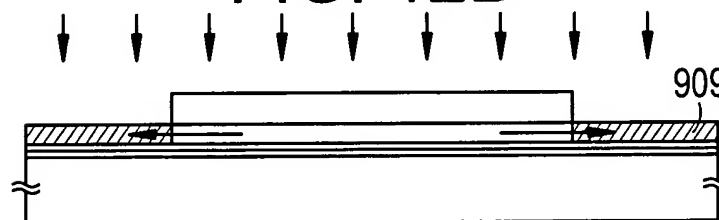


FIG. 12E



FIG. 12F





FIG. 13A

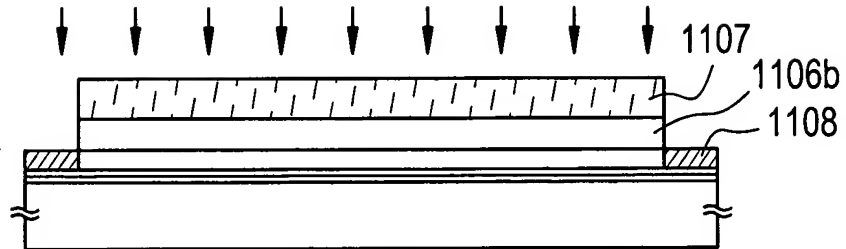


FIG. 13B

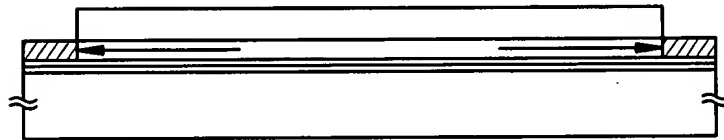


FIG. 13C

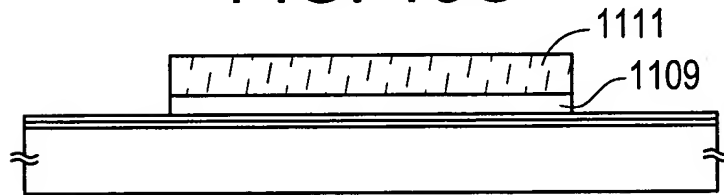
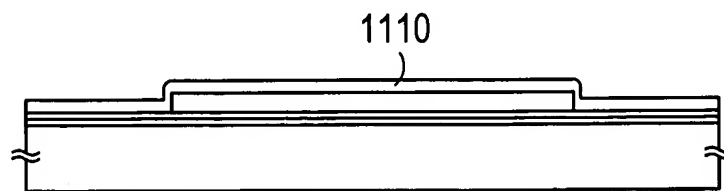


FIG. 13D





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FIG. 14A

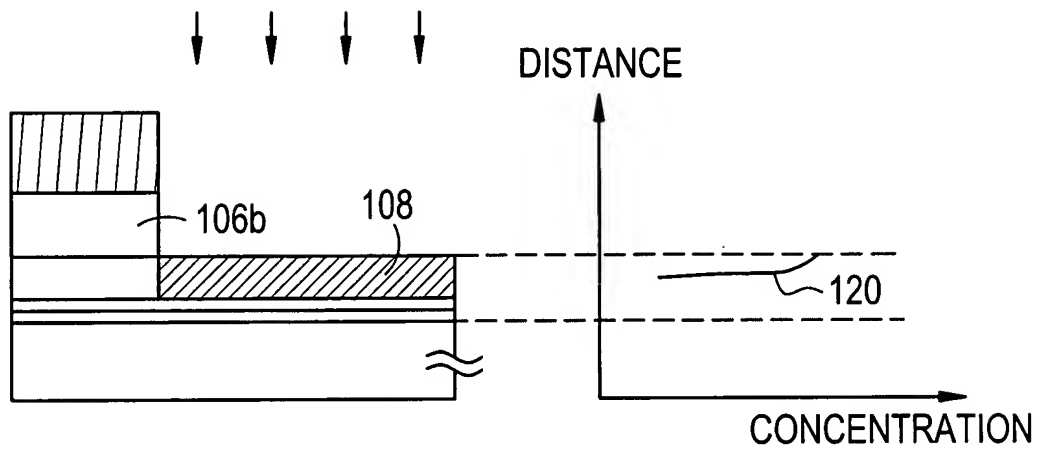


FIG. 14B

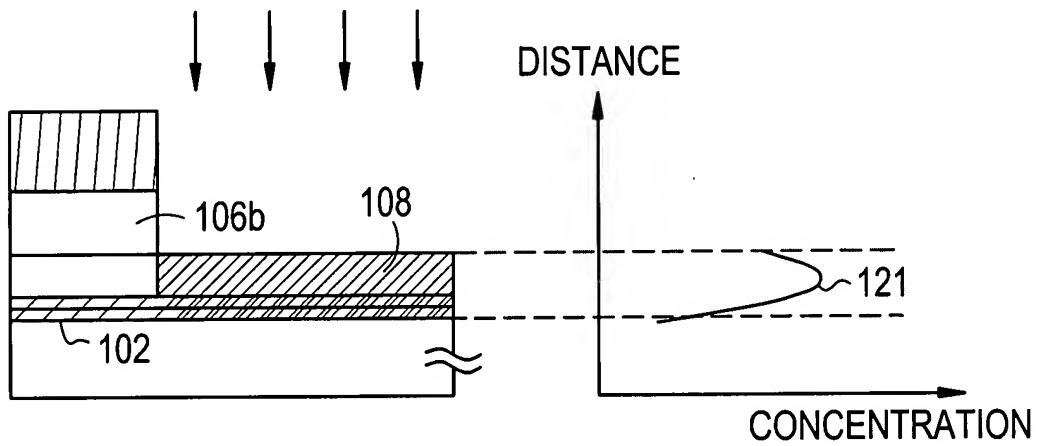


FIG. 14C

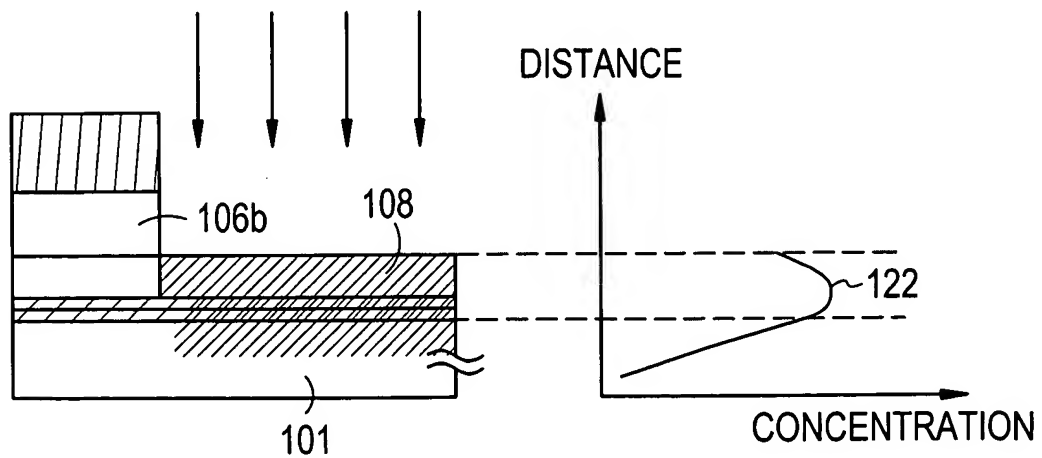


FIG. 15

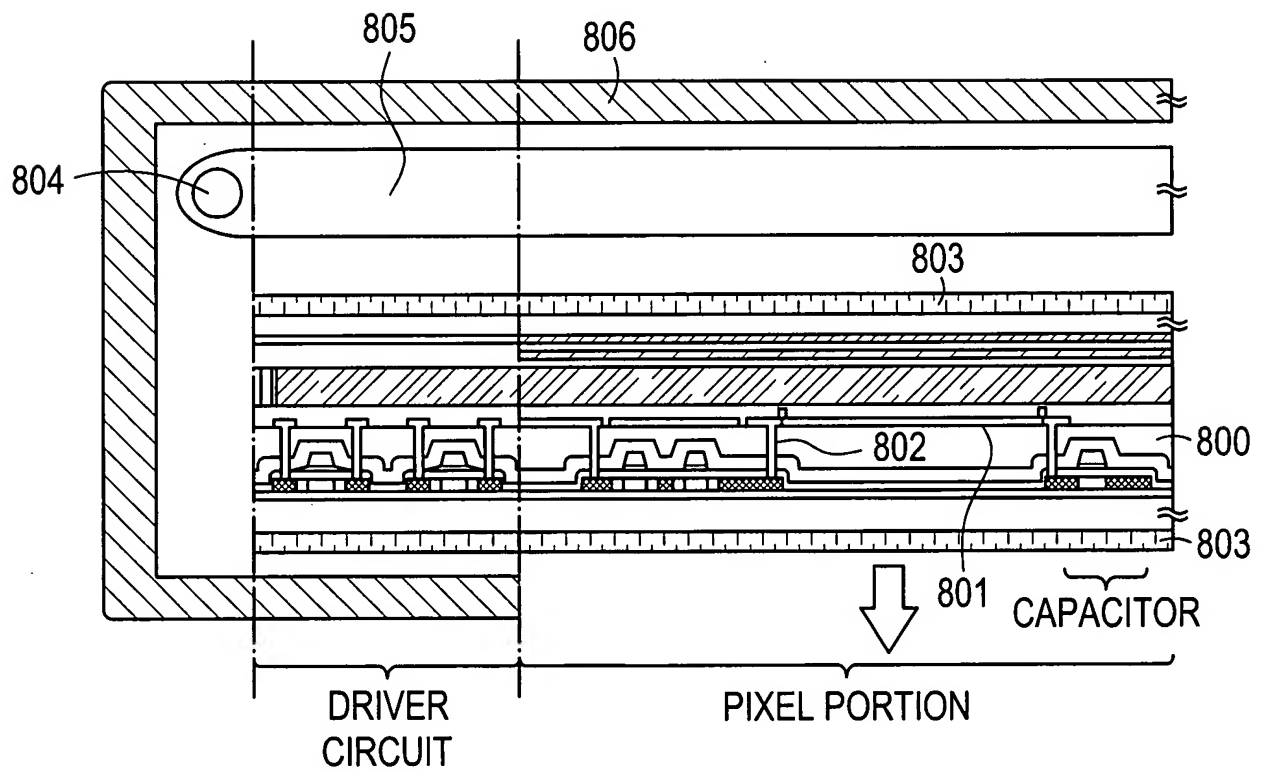


FIG. 16A

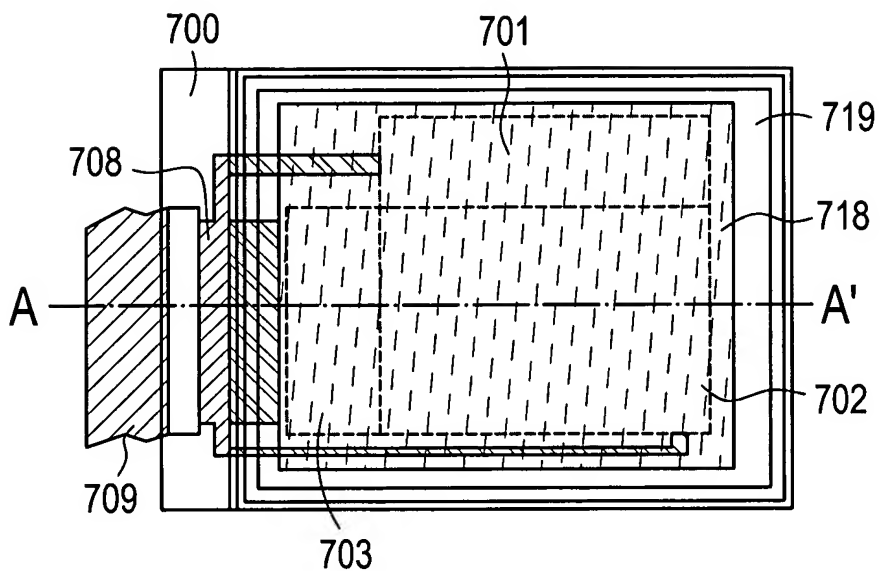


FIG. 16B

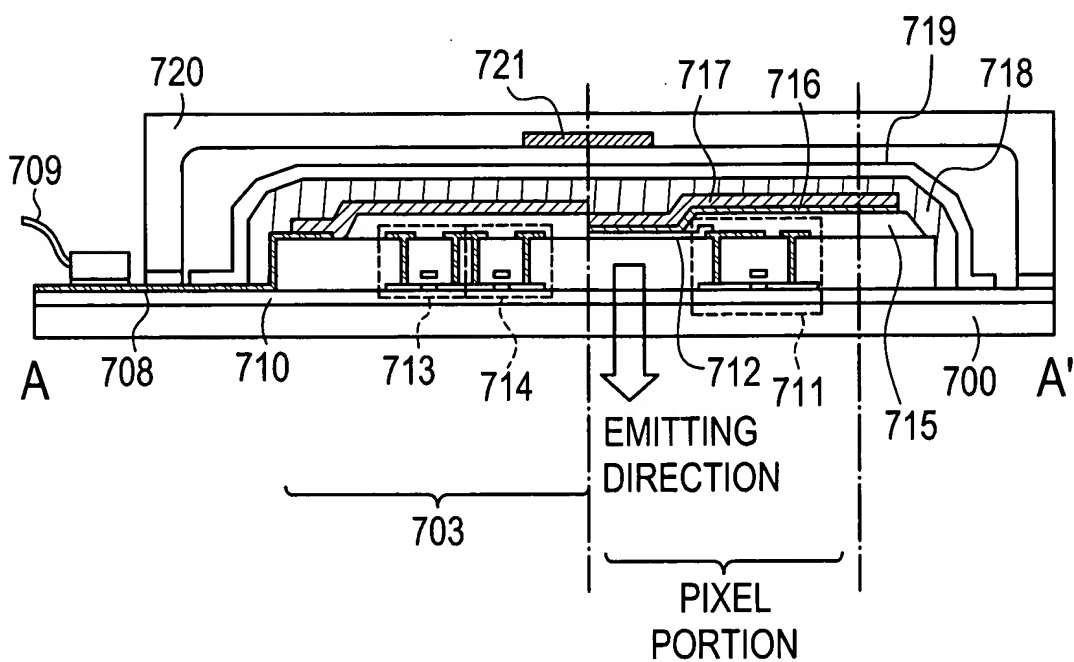


FIG. 17

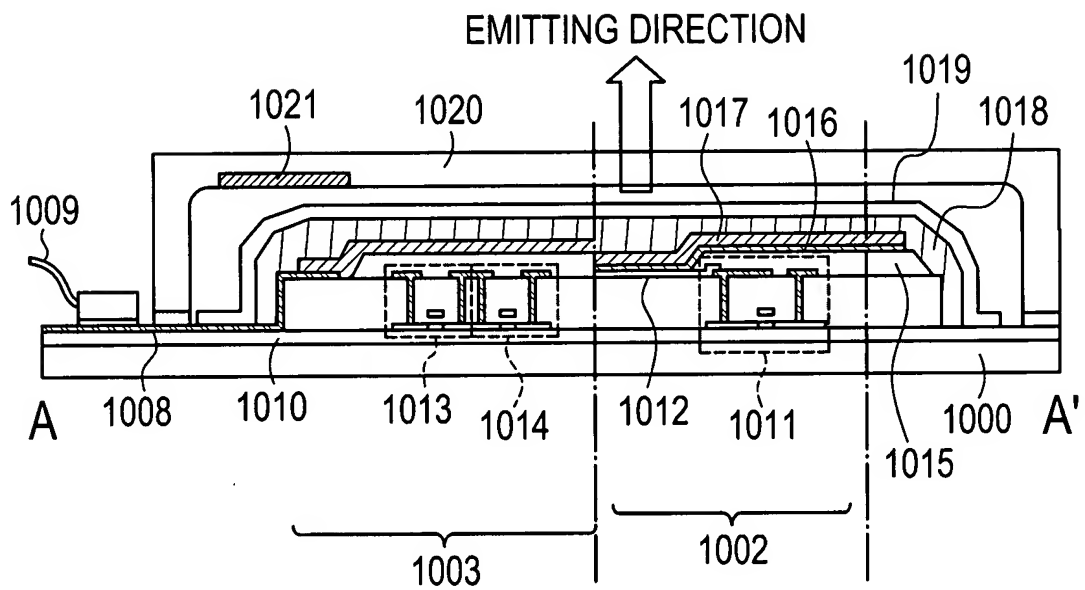


FIG. 18

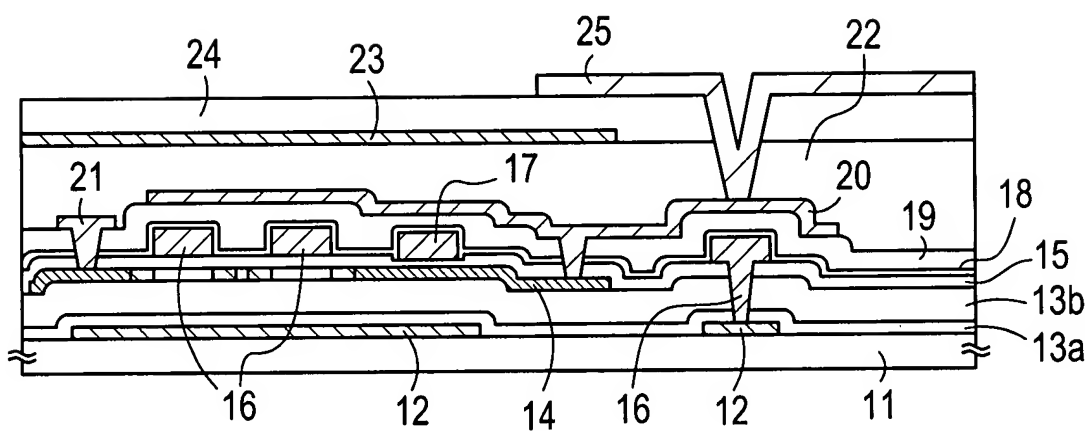


FIG. 19A

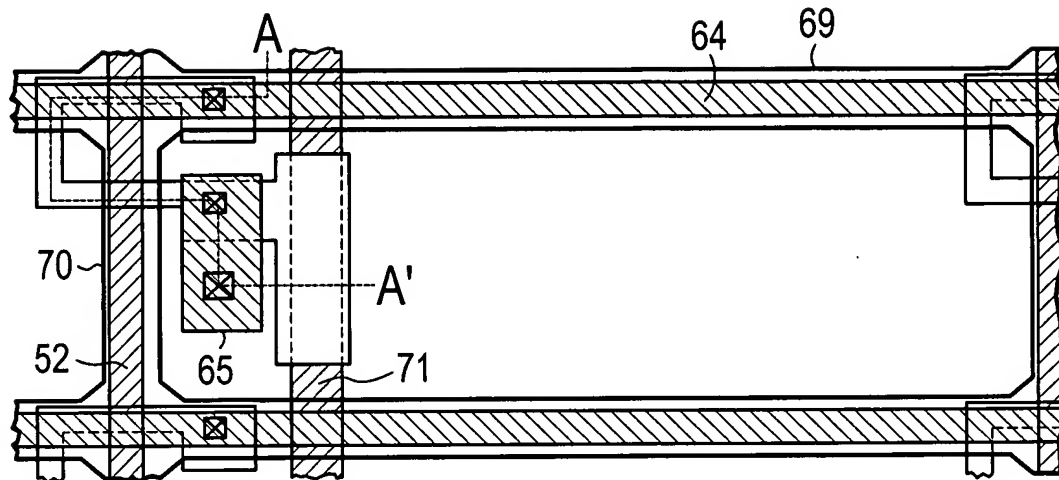


FIG. 19B

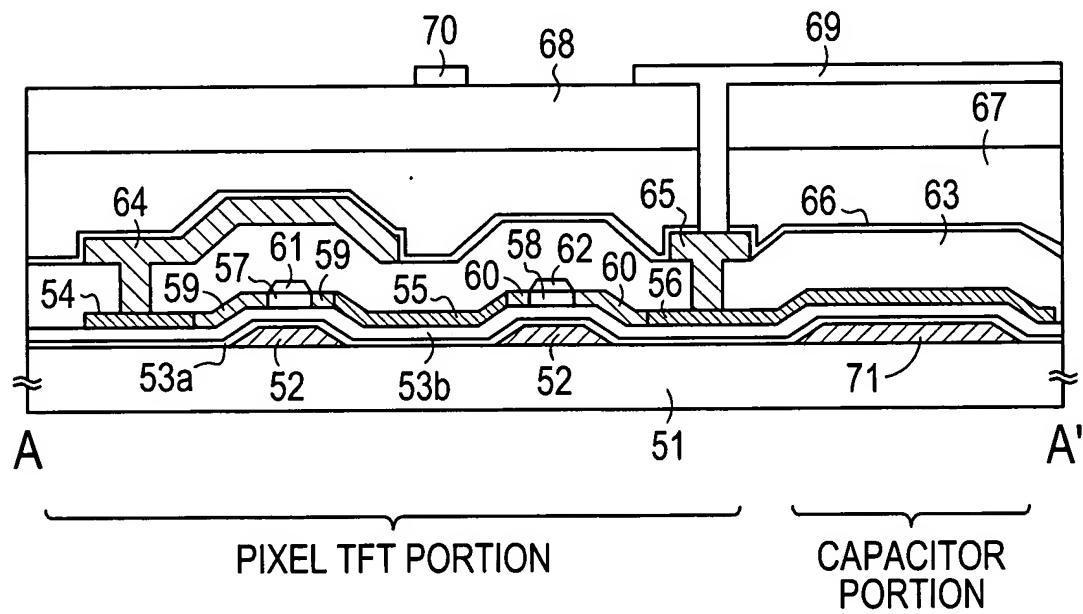




FIG. 20

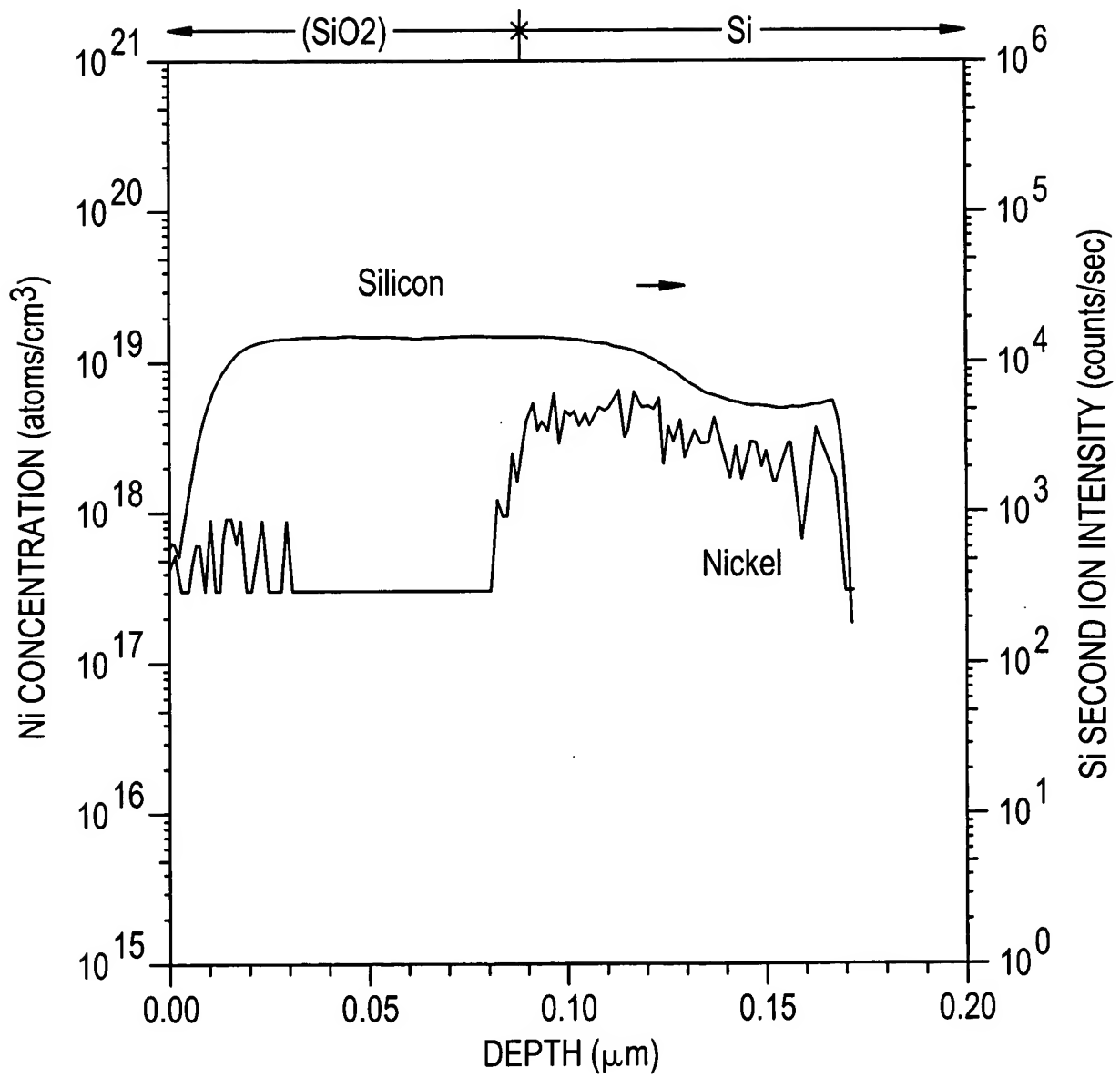




FIG. 21

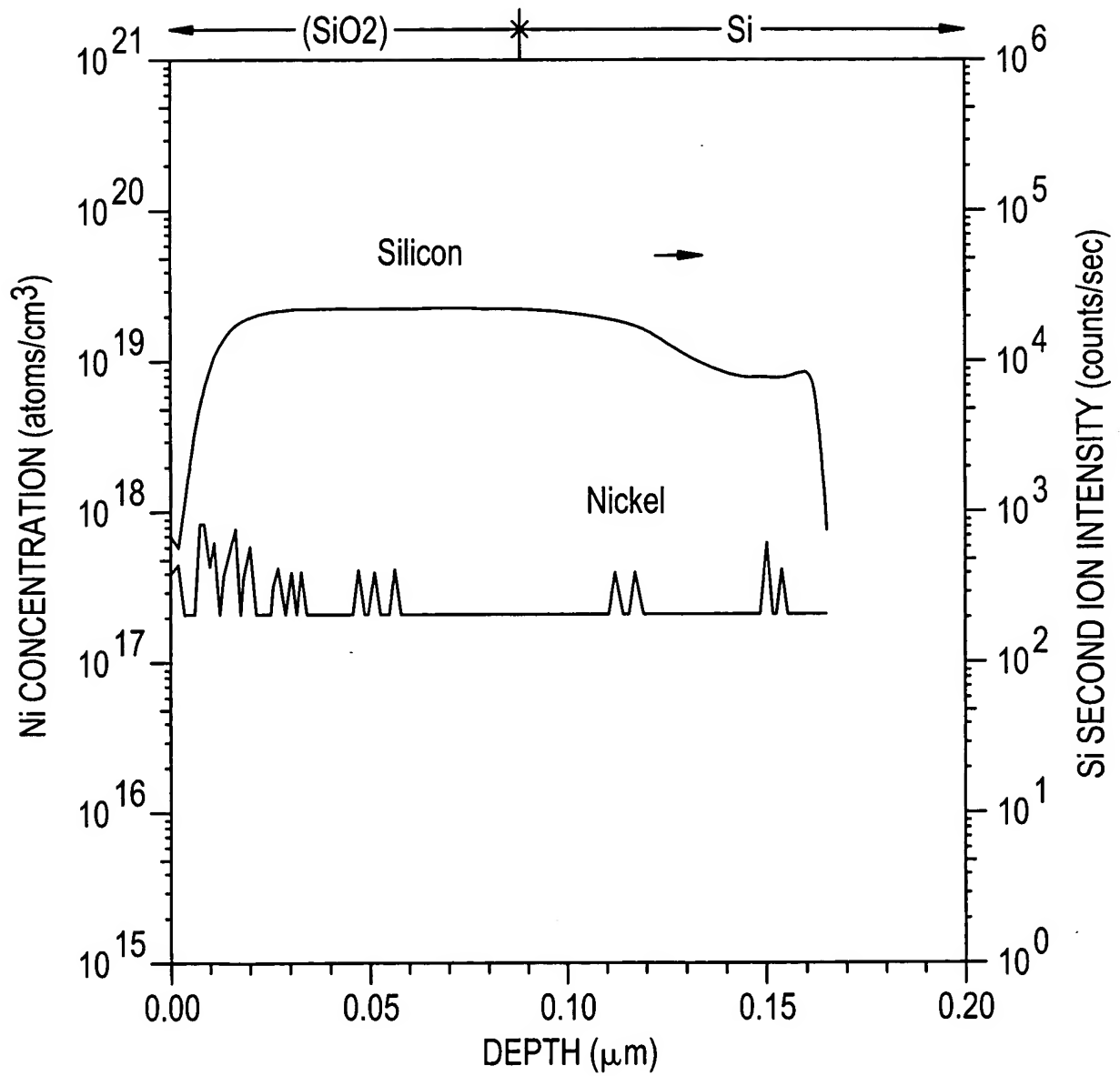
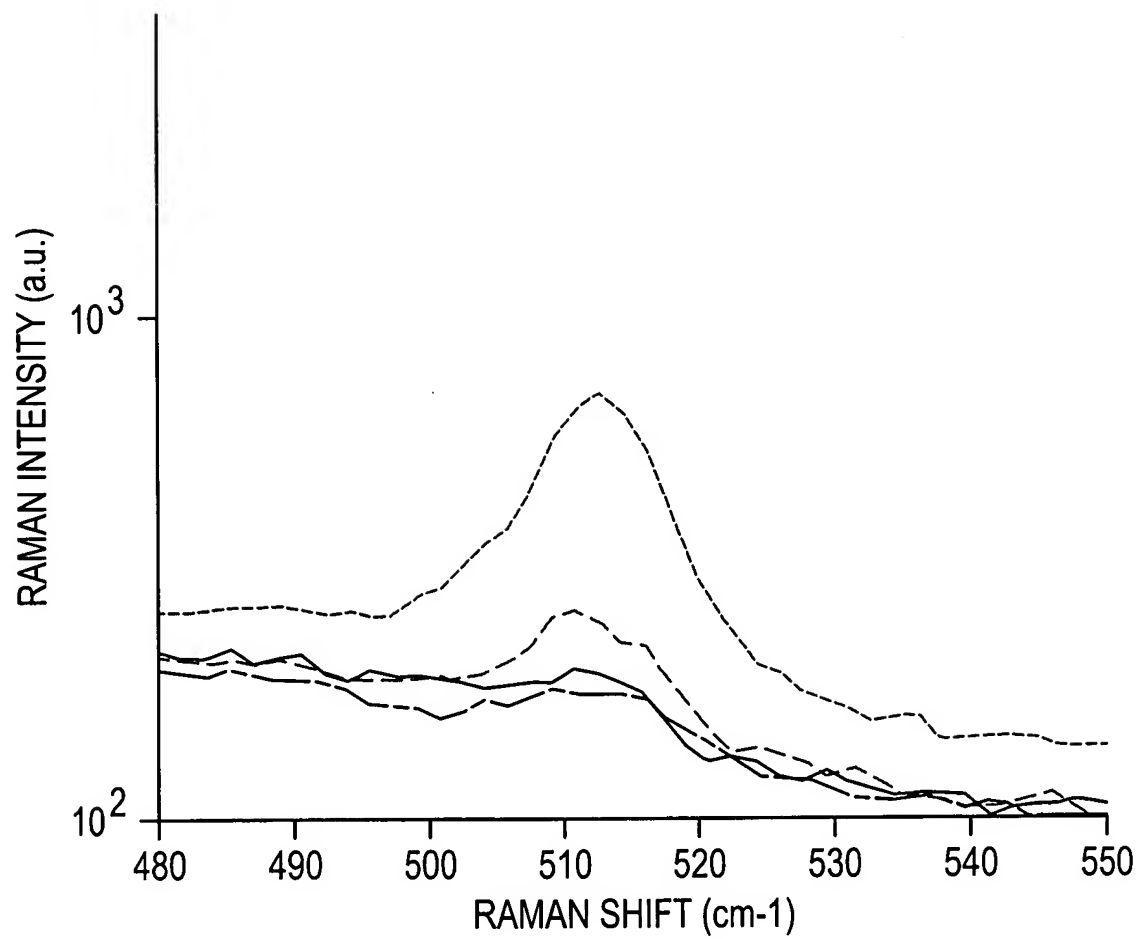




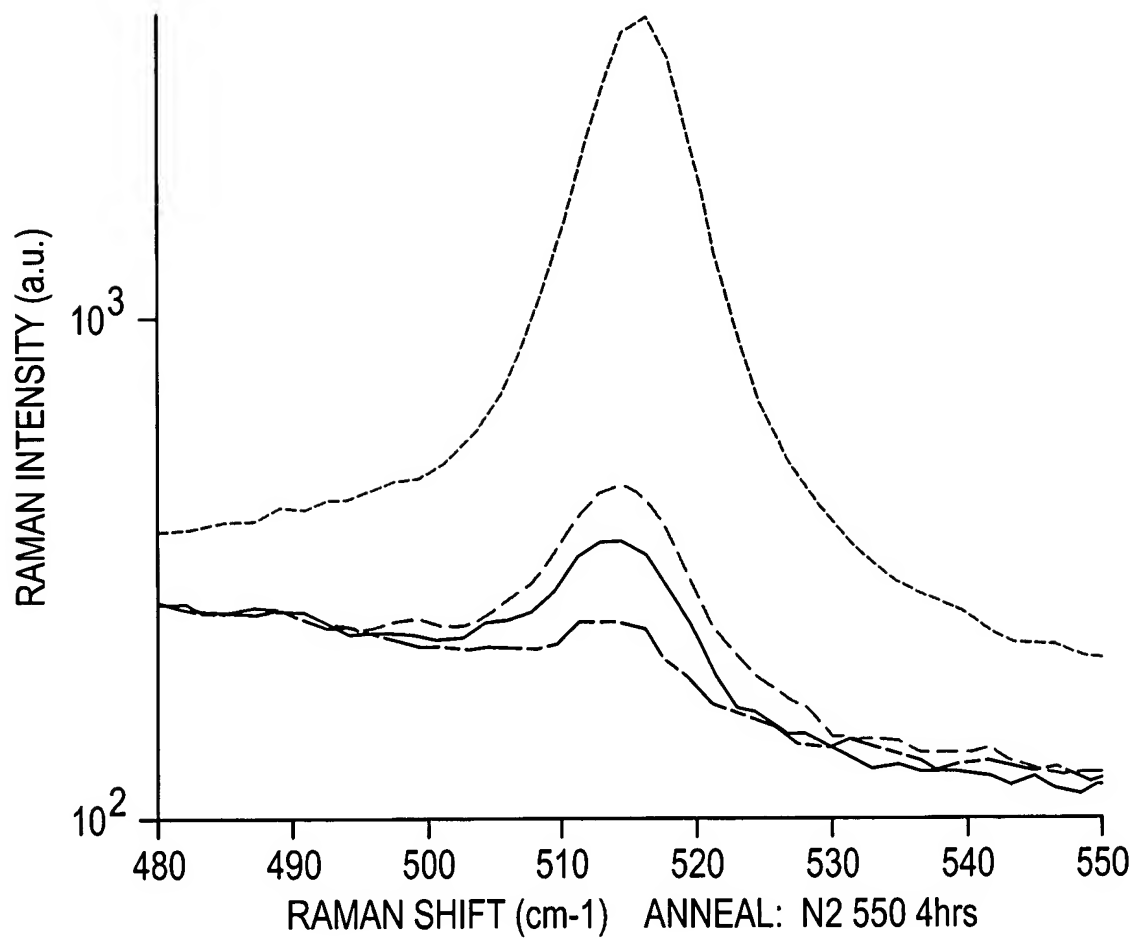
FIG. 22



- P1.5E15
- P1.5E15 + Ar2E15
- P1.5E15 + Ar4E15
- .-.-.- Ar4E15



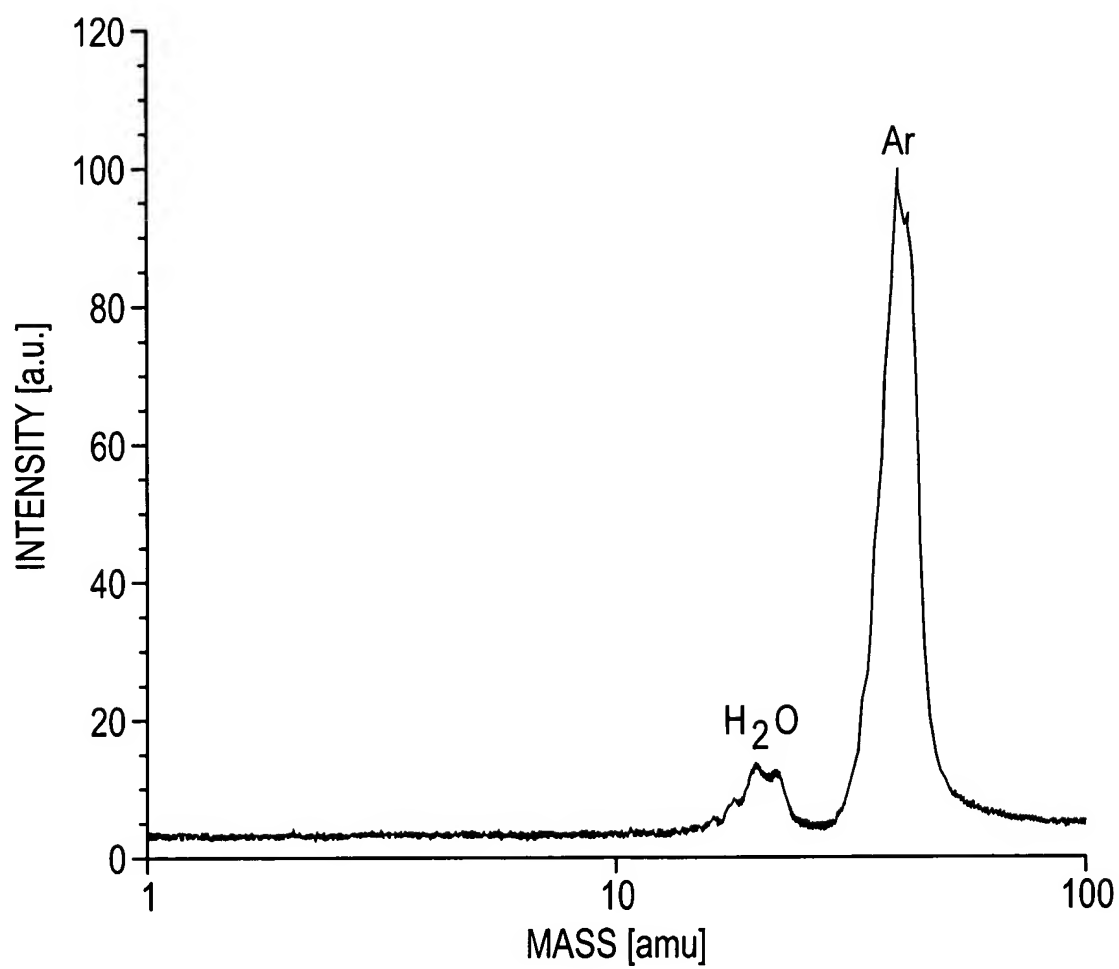
FIG. 23



- P1. 5E15
- P1. 5E15 + Ar2E15
- · - · - P1. 5E15 + Ar4E15
- Ar4E15



FIG. 24

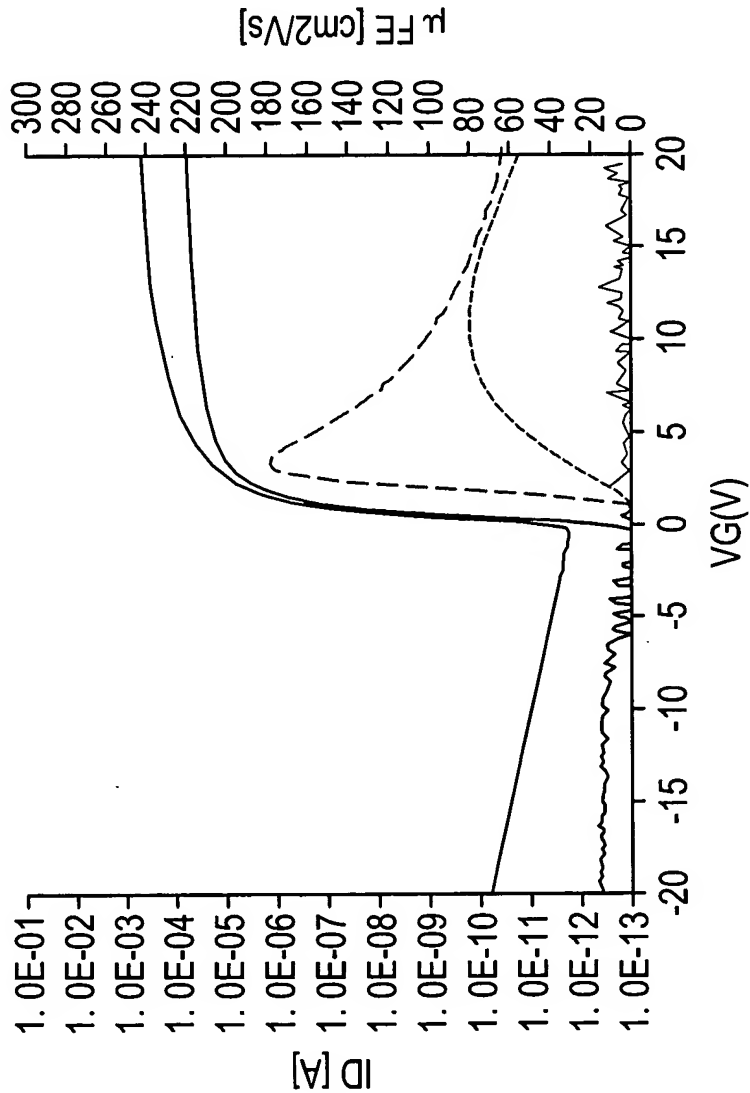


— Ar50cc5uA80kV



FIG. 25

AP005-17, Unit. S XA3 Y11 ([C], N-ch, LW=7/8, Tox=115)



Lot No.:		AP005_CN	
FILE NAME	CHNSA311		
Comment	SemiAuto		
PARAMETER OF MEASUREMENT			
VD start		1	
VD step		13	
VD step number		2	
PARAMETER OF CALCULATION			
CHANNEL TYPE		N	
L [μm]		7.0	
W [μm]		8.0	
DIELECTRIC CONSTANT		4.1	
THICKNESS OF OXIDE		115	
RESULT OF CALCULATION			
Ion_2 [A]	2.34E-04		
Ioff_2 [A]	3.70E-12		
Shift_1[V]	0.231		
Vth [V]	1.222		
S-value [V/dec]	0.175		
μFE (max) [cm2/Vs]	179.9		



FIG. 26

Ar dope 80kV 5E15 (into GI900 A/poly-Si500 A/SiON + SiNO/#1737)

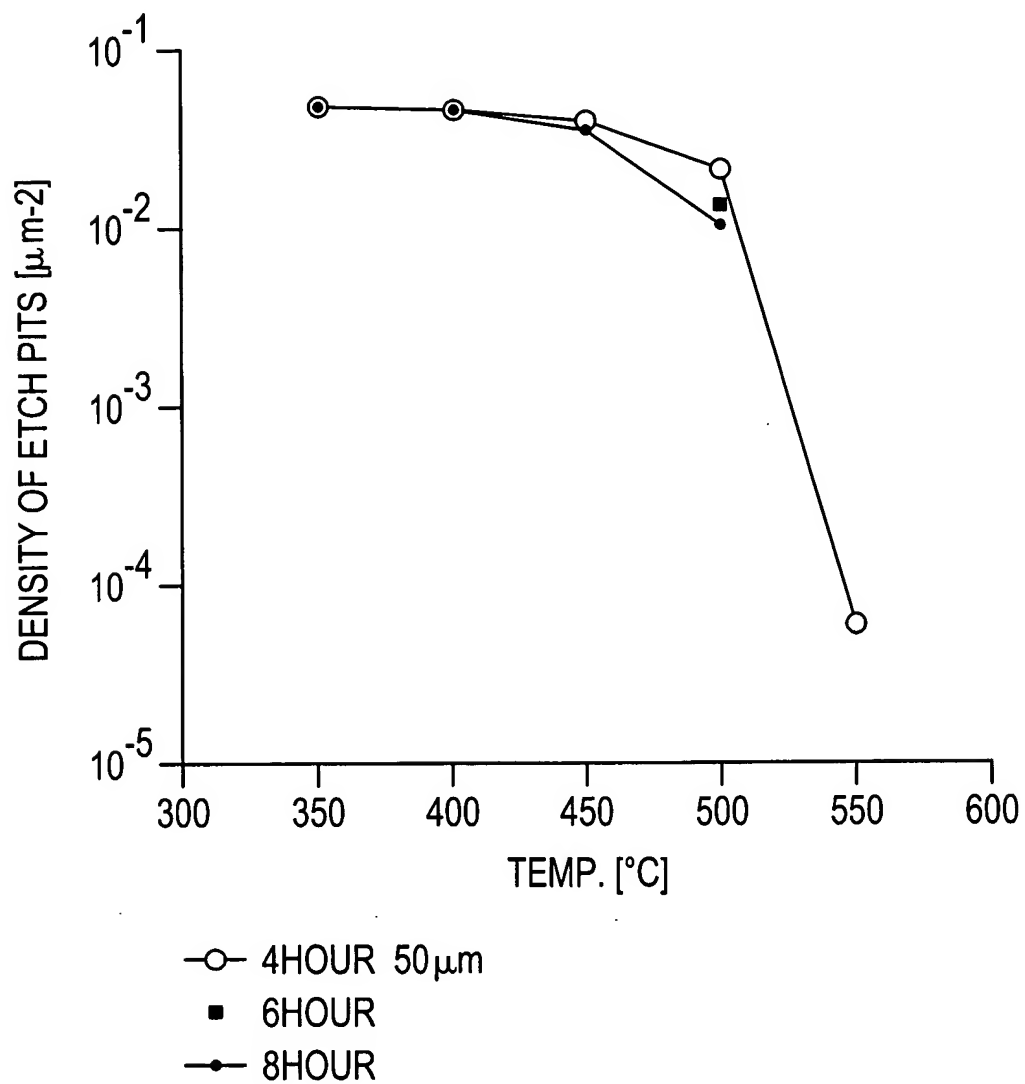
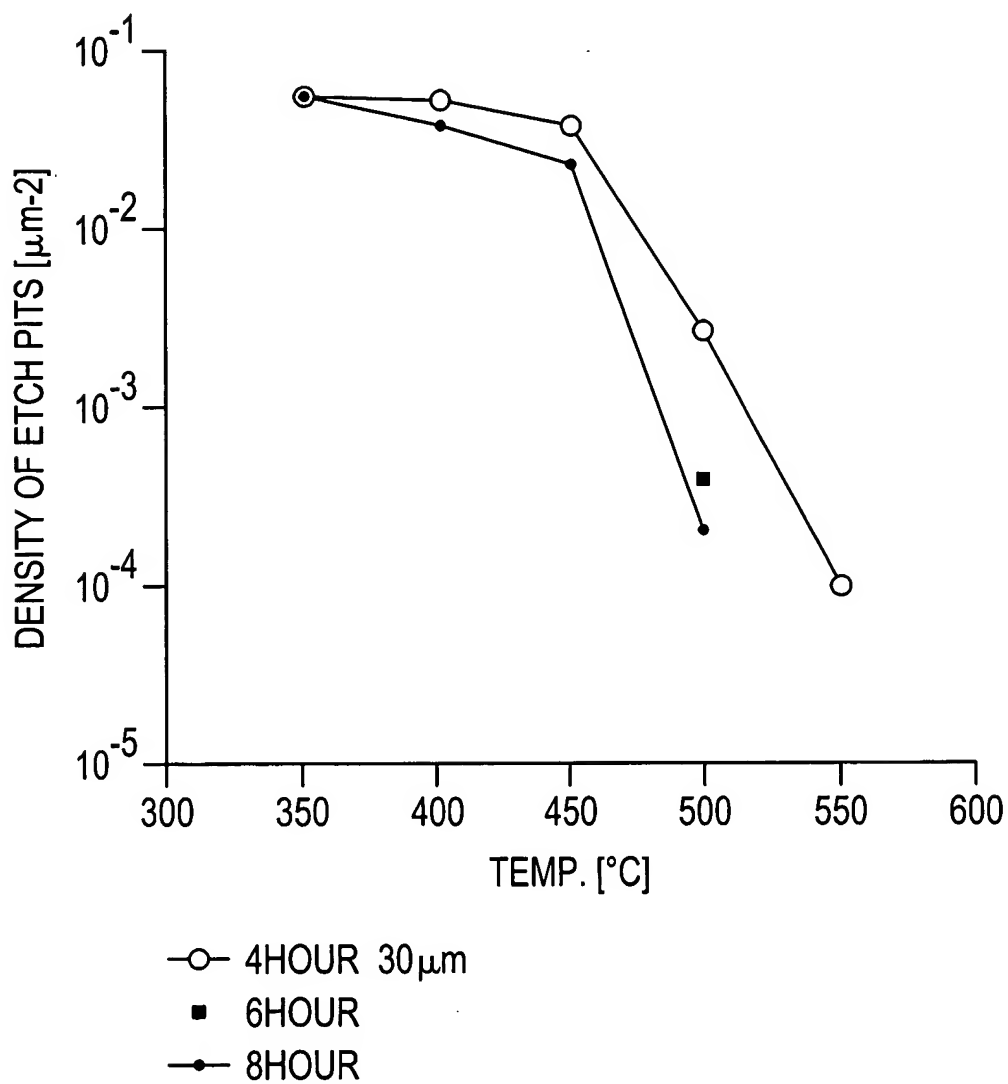
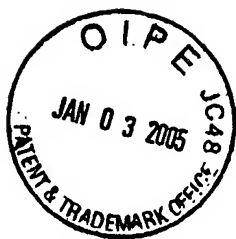




FIG. 27

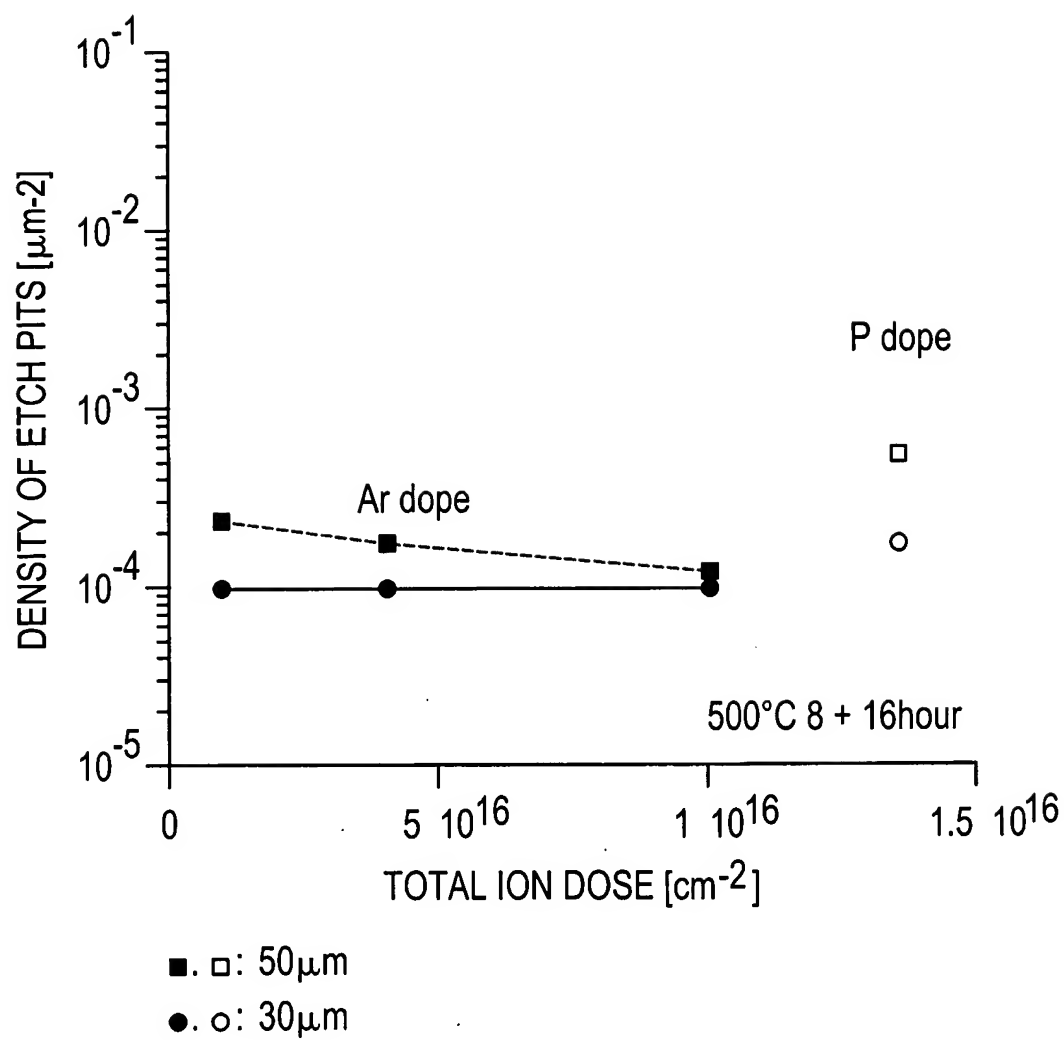
Ar dope 80kV 5E15 (into GI900 A/poly-Si500 A/SiON + SiNO/#1737)





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FIG. 28





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FIG. 29

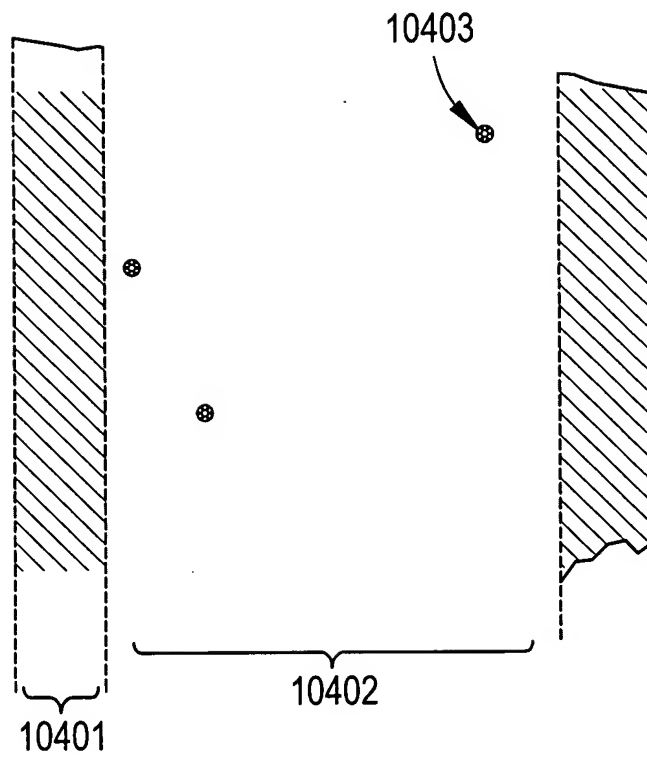


FIG. 31A

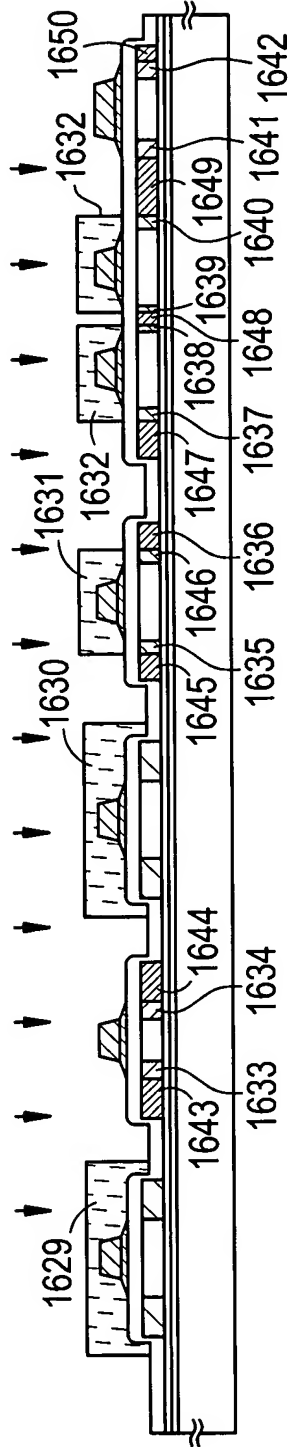


FIG. 31B

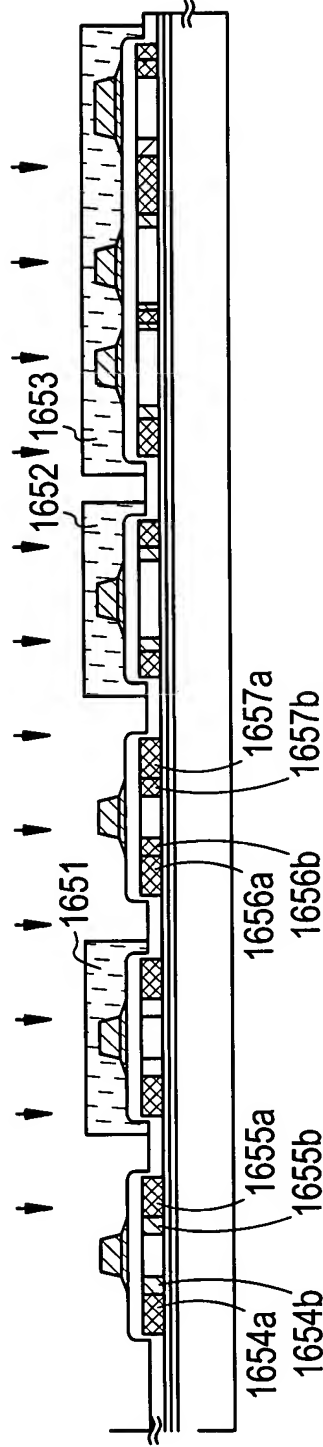


FIG. 31C

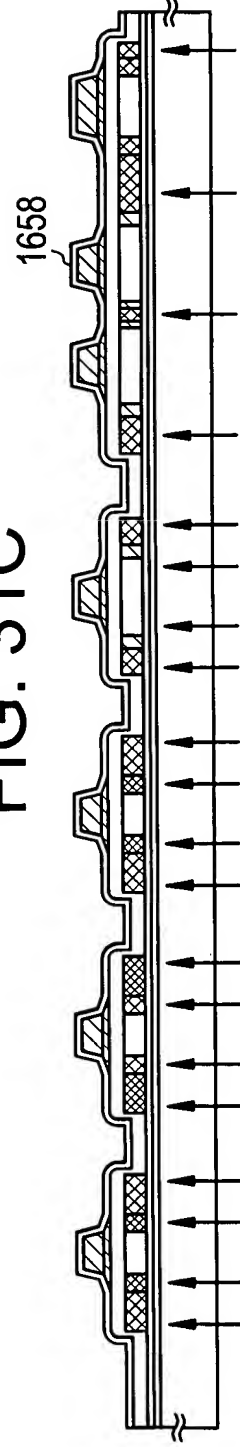


FIG. 32

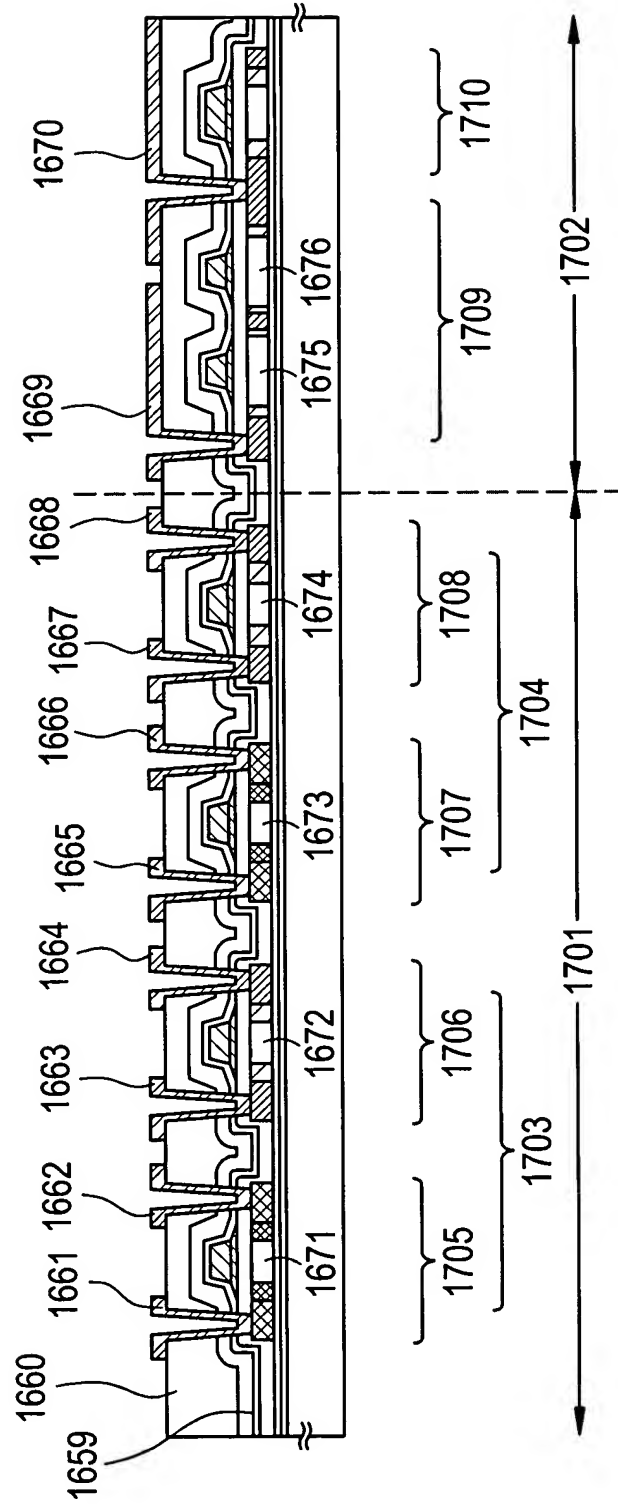


FIG. 33A

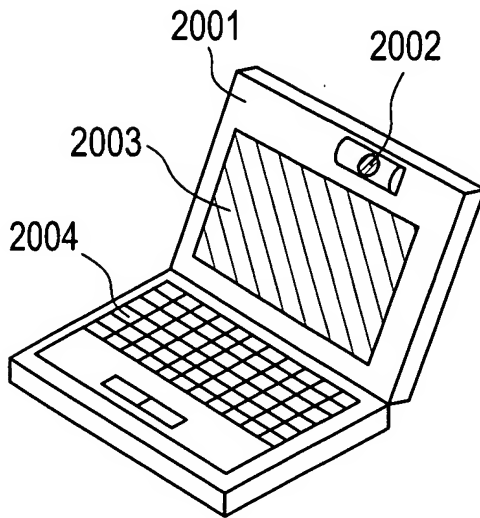


FIG. 33B

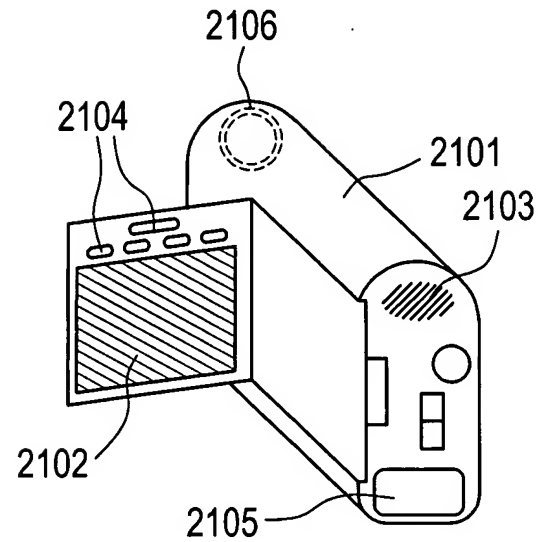


FIG. 33C

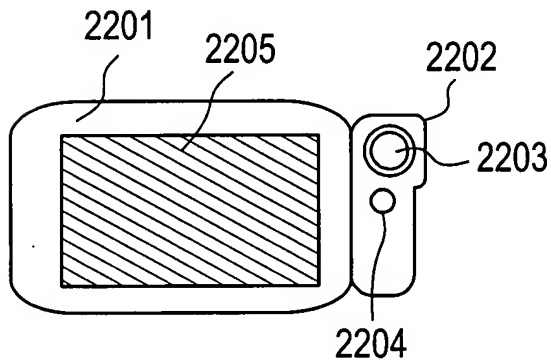


FIG. 33D

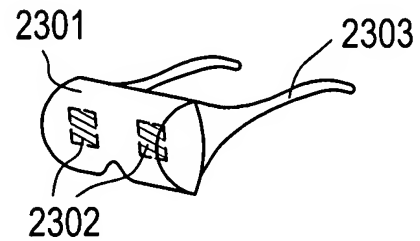


FIG. 33E

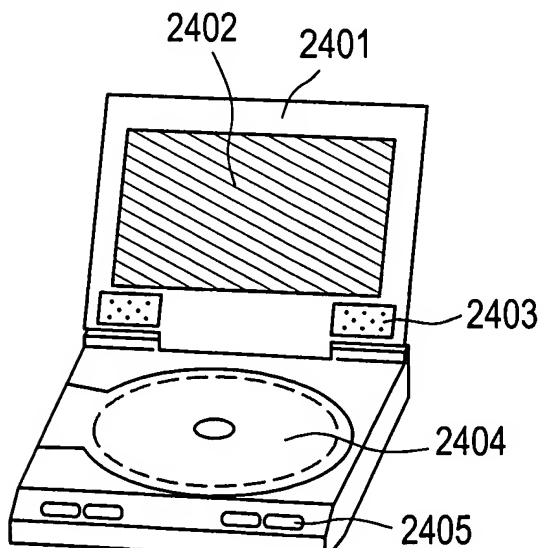


FIG. 33F

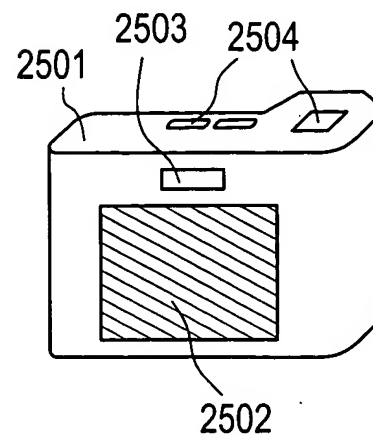


FIG. 34A

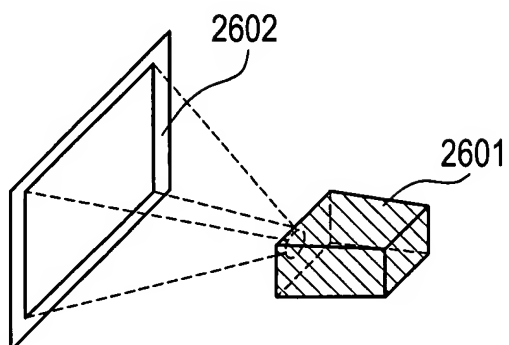


FIG. 34B

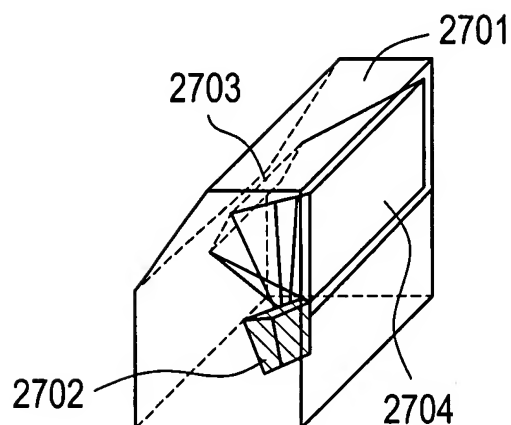


FIG. 34C

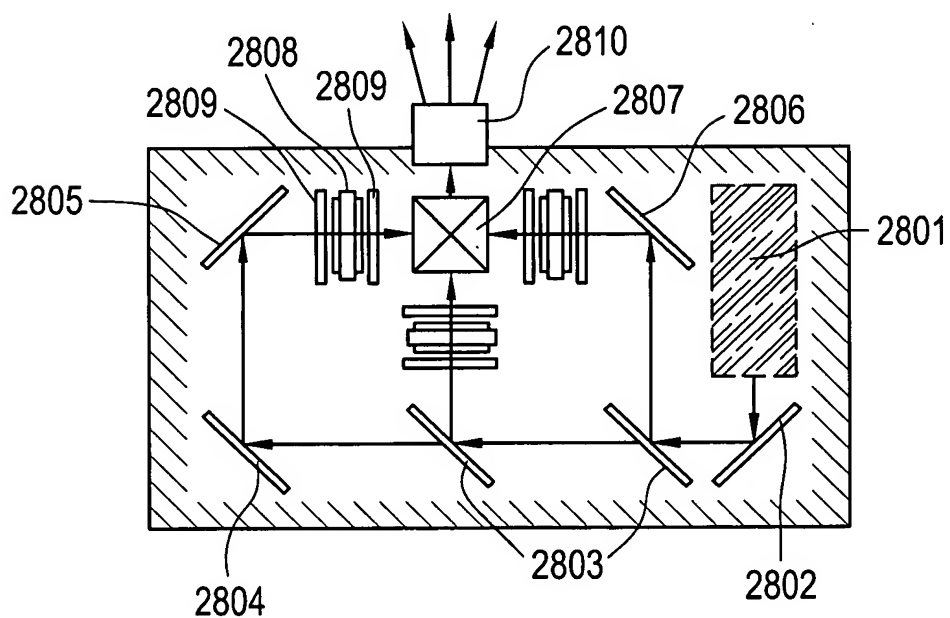


FIG. 34D

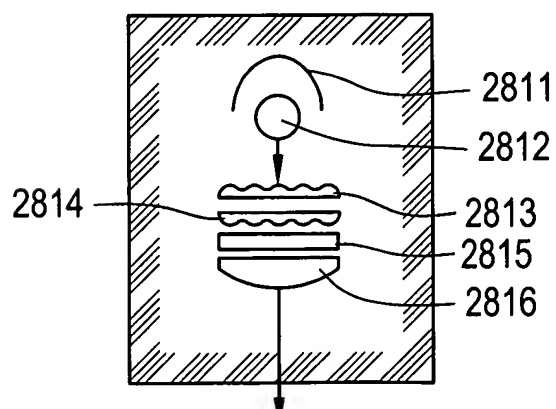


FIG. 35A

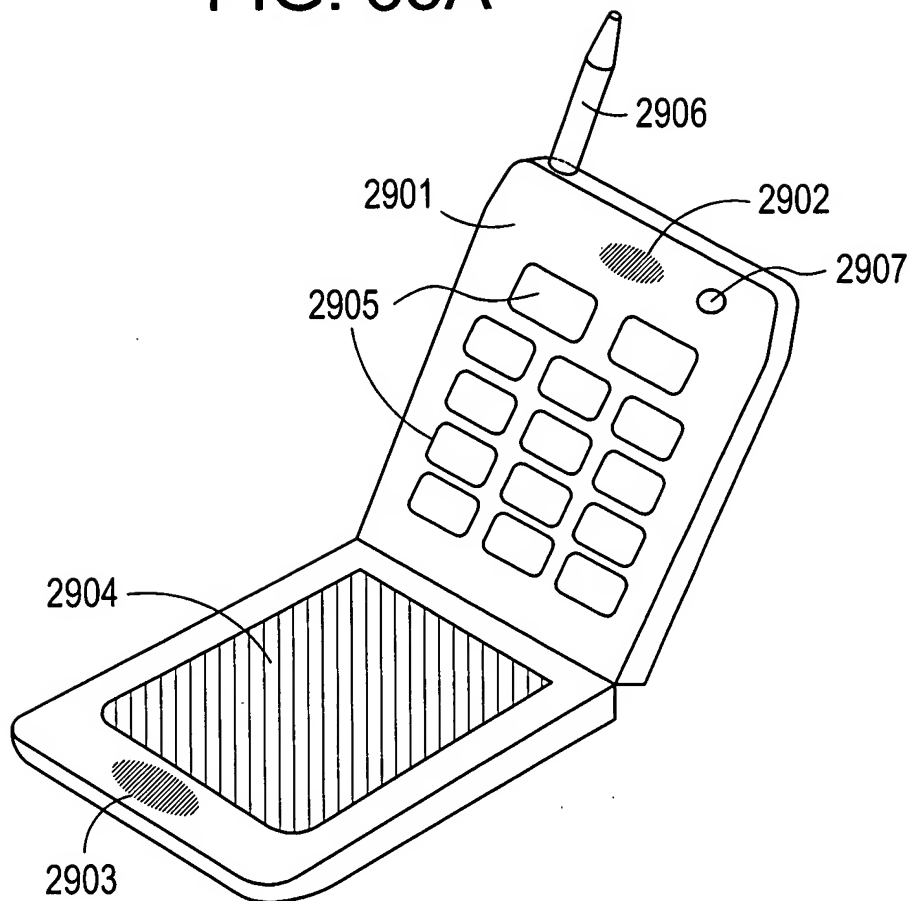


FIG. 35B

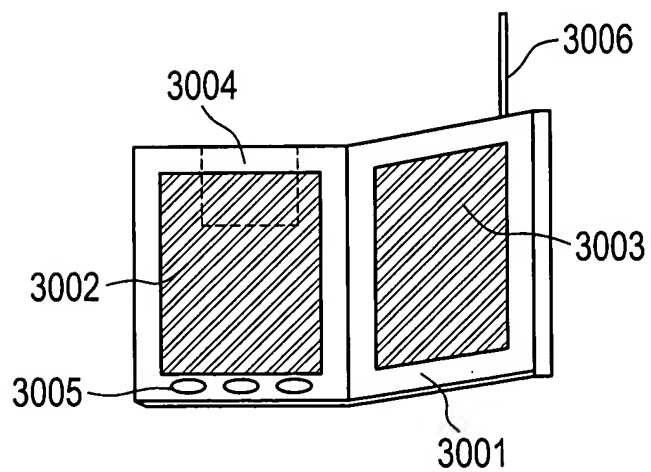


FIG. 35C

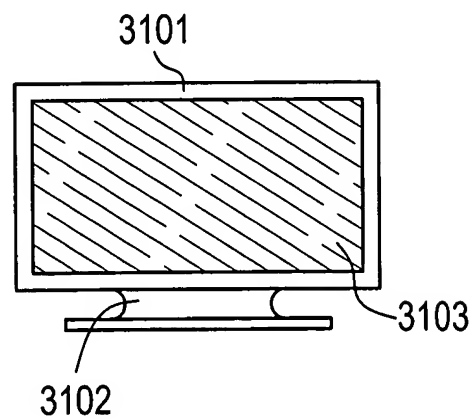




FIG. 36

	GETTERING CONDITION
MAGNIFICATION	550° C4hrs
X 200	